

PALATNIK, L.S.; FUKS, M.Ya.; BOYKO, B.T.; PUGACHEV, A.T.

Electron diffraction study of elastic deformation in thin condensed polycrystalline films of aluminum and silver. Dokl. AN SSSR 151 no.3:556-559 J1 '63. (MIRA 16:9)

1. Predstavleno akademikom S.A.Vekshinskim.
(Metallic films—Elastic properties)
(Electron diffraction examination)

ACCESSION NR: APL039600

S/0126/64/017/005/0726/0731

AUTHORS: Palatnik, L. S.; Fuks, M. Ya.; Boyko, B. T.; Pugachev, A. T.

TITLE: Electronographic and roentgenographic investigation of substructure of thin nickel and iron films condensed in vacuum

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 5, 1964, 726-731

TOPIC TAGS: nickel, iron, thin film, vacuum condensation, electronographic analysis, x ray analysis, gold, aluminum, silver, electronograph EG, diffractometer URS 50Im, metal film substructure, elasticity limit

ABSTRACT: Thin nickel and iron films precipitated in vacuum were investigated to compare their structures to those of gold, aluminum, and silver. The samples consisted of metal films 200 Å thick condensed on unheated base plates. These plates were made of glass and of NaCl crystals. Some films were precipitated on thin collodion films. Samples prepared in the above way were analyzed in transient light in the electronograph EG. The x-ray study was performed with a diffractometer URS-50Im. For this purpose, samples consisting of 30 overlying films were prepared.

Cord 1/2

ACCESSION NR: AP4039600

The results obtained by these two methods supplemented each other because the x-ray analysis revealed substructural characteristics in the direction perpendicular to the film surface, while the electronographic analysis showed them in the direction parallel to the surface. Average linear size of the block crystals, measured parallel to the surface, was 20-30 Å; it was 80-90 Å in the perpendicular direction. These block crystals had a columnar structure and occurred in a plane-stressed state. The microstress magnitude varied from 200 to 300 kg·mm⁻². Its origin was explained by the condensation process rather than by the deformation induced during separation of films from their base plates. Large microstresses were regarded as evidence of a high elastic deformation limit in the block crystals. This assumption was sustained by results of a direct load-testing of the film. Orig. art. has: 2 tables, 4 figures, and 1 formula.

ASSOCIATION: Khar'kovskiy politekhnicheskii institut im. V. I. Lenina (Khar'kov Polytechnic Institute)

SUBMITTED: 24Jun63

DATE ACQ: 19Jun64

ENCL: 00

SUB CODE: MM

NO REF SOV: 008

OTHER: 001

Card 2/2

L 18728-66 EWT(d)/EWT(l)/EWT(m)/ENP(c)/ENP(v)/T/EWP(t)/ENP(k)/EWA(h)/KTC(M)-O

ACC NR:AP6005149 IJP(c) JD/WW SOURCE CODE: UR/0126/66/021/001/0150/0152

AUTHOR: (Larson, D); Boyko, B. T.

ORG: *University of Virginia, United States; Khar'kov Polytechnic Institute im.
V. I. Lenin (Khar'kovskiy politekhnicheskii institut)

TITLE: Investigation of the electric properties of monocrystalline silver films

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 1, 1966, 150-152

TOPIC TAGS: metal film, silver, resistivity, electron scattering, galvanomagnetic effect

ABSTRACT: This project, performed while B. T. Boyko was temporarily assigned to the Physics Department of the University of Virginia, deals with the variation in the resistivity of monocrystalline Ag films of a thickness of much below unity with respect to the free-path length of electrons. The resistivity of these films varies considerably with their thickness and this facilitates establishing the nature of electron scattering from the surface considering that previous studies have demonstrated that electrons are only specularly reflected from the surface of thin crystalline films of Bi, Au, Sn and Pb whose thickness is roughly equal to unity with respect to the free-path length of electrons and which thus display only limited variations in resistivity. The thin Ag films were prepared by vacuum-evaporating 99.999% pure Ag onto mica heated to 270-300°C (pressure $5 \cdot 10^{-8}$ torr). The rate of

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L 18728-66

ACC NR: AP6005149

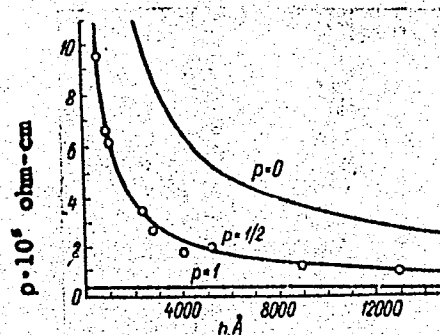


Fig. 1. Resistivity of Ag films as a function of film thickness. The curves show the theoretical variation in resistivity with thickness for $l = 31.2 \mu$ and $r_{\infty} = 600$; $p = 1$ - purely specular scattering; $p = 0$ - purely diffuse scattering

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ACC NR: AP6005149

Ag condensation was 4 Å/sec. The obtained films were monocrystalline with the (111) plane being parallel to the substrate and had a large number of twins and measured 20x5 mm in the substrate plane. Voltage drop on the films was measured at room and helium temperatures within two hours from the instant of removal of the film from the vacuum device, because otherwise the resistivity of Ag films at He temperature would increase at least 10% each day from the date of removal from the vacuum device (the nature of this phenomenon still has not been elucidated). Findings: by contrast with the data on Au films (Chopra, K. L., et al. J. Appl. Phys., 1963, 34, 1966) the ratio between the resistivities ρ of Ag films at room and helium temperatures $r = \rho_{293^\circ\text{K}}/\rho_{4.2^\circ\text{K}}$ varied from 17 to 175 with variation in film thickness h of from 640 to 13,000 Å. The free-path length l of electrons, extrapolated with respect to $r/h = 0$ is 31.2 μ ; the slope of this curve yields $r_\infty = 1800$ (r_∞ is the ratio of resistivities at room and He temperatures for infinitely thick films); for $l = 31.2 \mu$ we have $r_\infty = 600$. At such a value of r_∞ , p (the portion of specularly reflected electrons) must be taken as 1/2, i.e. in this case one-half of the electrons is reflected specularly from the film and the other half, diffusely (Fig. 1). The fairly high resistivity ratio ($r_\infty = 600$) shows that these films are of satisfactory purity and thus can be used to investigate the influence of the dimensional effect on the galvanomagnetic properties of silver. "The authors wish to express their gratitude to Drs. R. Coleman and N. Cabrera for profitable discussion of this project." Orig. art. has: 2 figures, 1 formula.

SUB CODE: 11, 13, 20/ SUBM DATE: 07Apr65/ ORIG REF: 000/ OTH REF: 009

Card 3/35

cooperation 142

L 46709-66 ENT(1)/ENT(m)/T/EMP(t)/ETI IJP(c) JD/GG/GD
 ACC NR: AT6020704 (N) SOURCE CODE: UR/0000/65/000/000/0040/0058
 AUTHOR: Palatnik, L. S.; Boyko, B. T. 38
 ORG: Khar'kov Polytechnic Institute im. V. I. Lenin (Khar'kovskiy politekhnicheskii institut) 34
 TITLE: Production of thin films by evaporation in vacuum and by cathode sputtering in a gas discharge
 SOURCE: AN UkrSSR. Fizika metallicheskih plenok (Physics of metal films). Kiev, Naukova dumka, 1965, 40-58
 TOPIC TAGS: metal film, polycrystalline film, epitaxial growth, crystal growth
 ABSTRACT: The article consists of a survey of material reported at the Cleveland seminar on thin films (October 1963) and work done by the Metal-physics department of the Khar'kov Polytechnic Institute. A brief review is presented of two methods of thin-film production, evaporation in vacuum and cathode sputtering, and the main parameters influencing the formation of the condensate on the substrate are discussed. Topics dealt with are the apparatus used for evaporation and sputtering, the effect of aggressive gas impurities, apparatus used for the measurement of thin-film properties, the effect produced on the film by factors such as the substrate and its purity, the condensation rate, and the substrate temperature (and effective means for its control). It is deduced that cathode sputtering has certain advantages over evaporation in vacuum, especially when it is desired to produce pure single-crystal and poly-
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L 46709-66

ACC NR: AT6020704

crystalline films. Some published data on epitaxial growing of thin films are presented and the discrepancies in the results obtained by different workers are pointed out. Orig. art. has: 9 figures.

SUB CODE: 20/ SUBM DATE: 15Nov64/ ORIG REF: 016/ OTH REF: 091

Card 2/2 fv

L 00739-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/AT/JH
 ACC NR: AP6018942 SOURCE CODE: UR/0126/66/021/006/0848/0853
 AUTHOR: Palatnik, L. S.; Fuks, M. Ya.; Boyko, B. T.; Panohekha, P. A.
 ORG: Kharkov Polytechnic Institute im. V. I. Lenin (Khar'kovskiy politekhnicheskii institut)
 TITLE: Electron diffraction study of the block structure of aluminum condensates
 SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 6, 1966, 848-853
 TOPIC TAGS: aluminum, metal film, electron diffraction analysis
 ABSTRACT: In an earlier paper, the authors described the electron diffraction micro-beam method for determining the size and disorientation of block crystallites in aluminum vacuum condensates 60-200 Å thick after annealing at 300° and above. In the present work, this technique was developed by increasing the resolution of the various reflections, so that the point diffraction lines on the electron diffraction patterns were obtained with films in the initial (unannealed) state. This made it possible to study the substructure of the films without altering it by the subsequent action of heat. The average length of the blocks in unannealed Al films condensed on an unheated substrate changes from 220 to 320 Å as the film thickness changes from 150 to 750 Å. The lower limit of the disorientation angles is 1.5-2°. Films 150 Å thick have a monoblock structure in their thickness. At 400 Å and higher, the monoblock character is impaired; it is probably a structural factor which determines the effect of the thick-
 Cord 1/2 UDC: 548.4

L 00739-67

ACC NR: AP6018942

ness on certain structurally sensitive properties. The presence of a sufficiently large number of blocks in the thickness of the film makes the latter similar to massive bodies. The density of the stream of condensing atoms is one of the parameters determining the form of the blocks, i. e., their size in the plane of the film and along the normal to it. Physical properties sensitive to the substructure may be different in the plane of the film and along the normal. Orig. art. has: 1 figure, 1 table, and 5 formulas.

SUB CODE: 11/ SUBM DATE: 15Jun65/ ORIG REF: 006/ OTH REF: 004

Card 2/2 *2C*

I. 09010-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JH

ACC NR: AP6027788

(A)

SOURCE CODE: UR/0126/66/022/001/0073/0077

AUTHOR: Palatnik, L. S.; Fuks, M. Ya.; Boyko, B. T.; Panchekha, P.A.

36

ORG: Khar'kov Polytechnic Institute im. V. I. Lenin (Khar'kovskiy politekhnicheskiy institut)

TITLE: X-ray diffractometric investigation of the substructure of thin aluminum condensates

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 1, 1966, 73-77

TOPIC TAGS: diffractometer, x ray diffraction analysis, aluminum, metal vapor deposition /
/ URS-50IM diffractometer

ABSTRACT: This work is a continuation of a previous investigation (Palatnik, L. S., et al. FMM, 1966, 21, 848), with the difference that it employs the x-ray diffractometric method to verify the possibility of differences between certain structurally sensitive physical properties in the plane of the thin film and along the normal with respect to this plane, which is assumed to be conditioned by different mechanisms of formation of regions of coherent scattering as a function of the condensation rate. To this end, 99.999 % pure Al was vacuum-evaporated on two unheated glass substrates coated with NaCl and located at different distances

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UDC: 620.183.48

L 09010-67

ACC. NR: AP6027788

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from the evaporator. The mean condensation rate on one substrate was $7 \text{ \AA} \cdot \text{sec}^{-1}$ and on the other substrate, $23 \text{ \AA} \cdot \text{sec}^{-1}$. The film obtained on the substrate closer to the evaporator was 1600 Å thick, while the film obtained on the more distant substrate was 500 Å thick. Packets of these films were then investigated with the aid of an URS-50IM diffractometer. Findings: for the thicker films (1600 Å), due to the higher condensation rate as compared with the thinner films (500 Å), the mean volume of regions of coherent scattering (r.c.s.) is greater, with the size of these regions increasing both the plane of the film and at right angles thereto. Even so, however, the increase in film thickness becomes greater than the increase in the size of the r.c.s. in the direction normal to the film plane so that, after passing through some critical thickness, the formerly monocrystalline film now becomes polycrystalline in thickness. Orig. art. has: 1 figure, 2 tables.

SUB CODE: 20, 11, 13/ SUBM DATE: 16Jul65/ ORIG REF: 006/ OTH REF: 002

Card 2/2 nst

L 23111-66 EWT(m)/EWP(t) IJP(c) JD/HW

ACC NR: AP6009486

UR/0020/66/167/001/0077/0079

AUTHOR: Palatnik, I.S.; Boyko, B.T.; Fuks, M.Ya.; Pugachev, A.T.

ORG: Kharkov Polytechnic Institute im. V.I.Lenin (Khar'kovskiy polit-ekhnicheskij institut)

TITLE: Elastic anisotropy of polycrystalline condensed films

SOURCE: AN SSSR. Doklady, v.167, no.1, 1966, 77-79

TOPIC TAGS: polycrystalline film, crystal anisotropy

ABSTRACT: The article describes electronographic studies of the deformation of thin polycrystalline films of aluminum, silver, and nickel, with thicknesses of 400-500 Å, condensed in a vacuum of 5×10^{-5} torr, at different temperatures of the support. The rate of condensation was 20-40 Å/sec. The films, separated from the support, were transferred to a plate with a slit and were put into the electronograph by means of a special device. Results of examination showed that, for thin polycrystalline vacuum condensates of the elastically anisotropic metals silver and nickel, the elastic anisotropy of the individual crystals was preserved, although not to the degree that might be expected for complete isotropy of the stress field, such as for example, for isolated mono-

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UDC: 539.4.015 + 530.23 + 530.27

L 23111-66

ACC NR: AP6009486

crystals. For aluminum films with a weakly marded elastic anisotropy, anisotropic elastic deformations of the lattice were not observed electronographically. In nickel films, condensed at a temperature of 650, the average size of the crystal blocks, observed by diffraction expansion, was 30 Å. Even with such a dispersed structure the elastic anisotropy of the individual blocks was preserved, but there was observed a tendency for it to become weaker in comparison with coarse grained films. Orig. art. has: 1 formula and 3 figures.

SUB CODE: 20/ SUBM DATE: 06Dec65/ ORIG REF: 006/ OTH REF: 001

Card

2/2 *Hal*

BOYKO, B.T.; PANCHEKHA, P.A.; POLENOVA, V.M.; FUKS, M.Ya.

Comparing the degree of disorientation of separately reflecting regions in thin vacuum condensates and solid specimens of aluminum. Fiz. met. i metalloved. 16 no.4:540-543 0 '63. (MIRA 16:12)

1. Khar'kovskiy politekhnicheskii institut.

BOYKO, B.Ya., inzh. (Kalinin); SMIRNOV, G.S., inzh. (Kalinin)

Glass plastics as a new material in car construction. Zhel.-dor.transp.
45 no.12:82 D '63. (MIRA 17:2)

BOYKO, D.F.

Excellent work is done by the workers of the division. Put' 1 put.
khoz. 5 no.9:9 S '61. (MIRA 14:10)

1. Zamestitel' nachal'nika distantsii puti, st. Belogorsk,
Zabaykal'skoy dorogi.
(Transbaikalia--Railroads--Maintenance and repair)

BOYKO, D. F.

Boyko, D. F. "The matching of the class group, the size of the curl, and the constitutional wool type of karakul sheep in selections," Karaskulevodstvo i zverovodstvo, 1949, No. 2, p. 29-33.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

BOYKO, D.F.

Raise healthy young
Kar. i zver., 5, no.3, 1952

BOYKO, D.F.

Preparation and successful conduct of the breeding season is a most important
immediate task

Kar. i zver. 5 no.4, 1952

1. BOYKO, D. F.
2. USSR (600)
4. Karakul Sheep
7. Work practice of senior shepherd Dzhadsy Kendzhabayev, in wintering karakuls,
Kar. i zver. No 6 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. BOYKO, D. F.; ZHUKOV, A. S.
2. USSR (600)
4. Pastures
7. Ways to increase the carrying capacity of pastures on state karakul farms.
Kar. i zver. 6 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. BOIKO, D. F.
2. USSR (600)
4. Karakul Sheep
7. For successful completion of wintering and faultless care during lambing of karakul sheep. Kar. i zver. 6 no. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

USSR/Farm Animals. Sheep and Goats.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78762.

Author : Boyko, D. F.

Inst :

Title : For the Increase of the Productivity of Grey
Karakul and the Improvement of Its Quality.

Orig Pub: Karakulevodstvo i zverovodstvo, 1956, No 2,
18-24.

Abstract: It is recommended to carry out the mating of
black mares with grey rams and similar mating of
grey sheep (in limited number), to preserve the
breed of grey rams obtained from the best-bred
relations both in similar and dissimilar mating
as regards color, to widely utilize the best rams

Card : 1/2

USSR / Farm Animals. Small Horned Cattle

Q

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21457

Author : Boyko D. F.

Inst :

Title : The Raising of Karakul Sheep in Afghanistan (Karakul-evodstvo Afganistana)

Orig Pub: Karakulevodstvo i Zverovodstvo, 1957, No 3, 57-61

Abstract: According to unofficial data the number of Karakul sheep and their crossbreeds in Afghanistan in 1956 was about 5,000,000. The raising of Karakul is concentrated mainly in the northern and northwestern parts of the country and is based on the utilization of natural pastures. The export of Karakul lambskins and wool constitutes the principal part of the country's income. At present, the entire crop of Karakul lambskins is exported to the U.S.A. The

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USSR / Farm Animals. Small Horned Cattle

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Abs Jour: Ref Zhur-Biol., No 5, 1958, 21457

Abstract: article gives numerical data for the export of Karakul lambskins from 1935 to 1936, as well as the characteristics of the export grades of the same.

Card 2/2

BOYKO, Dmitriy Fedorovich; KHARLAMPIDI, Georgiy Pavlovich; SOBACHIK, A.P.,
spetsred.; GORNIK, M.V., red.; PECHENKIN, I.V., tekhn.red.

[Introduce the SZhK preparation more widely] Shire vnedriat'
preparat SZhK. Moskva, 1960. 11 p. (MIRA 13:11)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
Pavil'on "Ovtsevodstvo."
(Hormones) (Stock and stockbreeding)

BOYKO, D.F., zootekhnik

Ways for increasing the production of golden karakuls. Zhivotnovodstvo
23 no.2:58-65 F '61. (MIRA 15:11)
(Soviet Central Asia--Karakul sheep)

PADUCHEVA, Aleksandra Leonidovna; BOYKO, Dmitriy Fedorovich;
BABKINA, N.G., red.

[Hormonal methods for increasing the fertility of farm
animals] Gormonal'nye metody povysheniia plodovitosti
sel'skokhoziaistvennykh zhivotnykh. Moskva, Kolos, 1965.
302 p. (MIRA 18:4)

L 08104-67 EWT(1) DD

ACC NR: AP6029960

SOURCE CODE: UR/0413/66/000/015/0146/0146.

INVENTOR: Glushkov, I. L.; Boyko, D. G.

ORG: none

TITLE: A device for dropping parachute models. Class 62, No. 184629.

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 146

TOPIC TAGS: parachute, model test, test method

ABSTRACT: This Author Certificate introduces a device for dropping parachute models from captive balloons, kites, parachute towers, etc. It has a suspended container with safety pin bolts connected to the rip cord, the other end of the rip cord being fastened to the harness hitch. To carry out a massive parachute drop, the container has a row of compartments which are open in the bottom and spaced as desired. The container is suspended from a harness hitch by means of detachable tubing, so that the rip cord hangs loosely and the detachable tubing, which holds the container, is passed through a remotely controlled. Another version of the same device has a cutter made of a filament surrounding the tubing; this is heated by power source located at the control point. A swivel is inserted in the center of the harness hitch to prevent the entangling of the detachable tubing, the rip cord, and the restraining guard. Orig. art. has: 1 figure. [SA]

SUB CODE: 01/ SUBM DATE: 12May64/
Card 1/1 //

UDC: 629.13.01/06

1. KHIL'KEVICH, N. M., BOYKO, D.K.
2. USSR (600)
4. Milking
7. Practice of stripping cows. Dost sel'khoz No 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

BOYKO, D. P. --

"The Femoral Nerve." Cand Med Sci, First Leningrad State Medical
Inst, Leningrad, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (10)

SO: Sum, No. 481, 5 May 55

by bone lesions which led to a genuine nervous ~~amputation~~ of both feet, as well as

EXCERPTA MEDICA Sec.9 Vol.11/9 Surgery Sept 1957

4948. BOYKO D.P. *Concerning incisions of the thigh in suppura-
tive processes (Russian text) KHIRURGIJA 1957, 3 (32-36)
Illus. 4

Examination of 42 preparations of lower extremities obtained from cadavers of adults showed that vascular and nervous branches on their way to the anterior muscles of the thigh go together, adjacent to each other and the relationship between them is rather constant. Muscular branches of the femoral nerve in their approach to every muscle are situated most frequently exteriorly and exterio-anteriorly from the vascular branches which supply the corresponding muscle. Both the blood vessels and the nerves enter the medial edge of the muscles in the same zone, which for the majority of anterior muscles corresponds to adjacent areas of the medial third of the thigh. The place of entrance of the vascular and nervous branches into the vastus intermedius is situated mostly in its medial third. In choosing the most rational incisions it is necessary to take these facts into consideration. The general rule which may be recommended in approach to deep layers of the anterior part of the thigh by intermuscular planes is to take the external edge of the medially situated muscle as a landmark. However, if possible, one has to endeavour not to injure the spaces in the upper half of the thigh between the rectus femoris and vastus lateralis and intermedius where the most important vascular and nervous branches are situated.

*Dr. Kafeev Normal'nyy anatomii (Zav. - Prof. A. V. Shul'gin)
Leningradskogo Pediatricheskogo Meditsinskogo Inst. (Bull. prof.
N. T. Shul'gin)*

BOYKO, D. V.

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Put' Mashego Kolkh Osa. (Kolkhoz im Lenina, Chamerovers. Rayona). M., Sel'khozgiz, 1954. 182 S. S'111. 21 sm. 15,000 eks. 3r. 90k. U per. (54-55287) P
338.1K (47.732)

SO: Knishanaya, Letopis, Vol. 1, 1955

BOYKO, D.V.

SPIVAK, M.S., glavnyy redaktor; BILOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVAL', O.G., redaktor; KRILOV, O.F., redaktor; PUKHAL'S'KIY, A.V., redaktor; SIDORENKO, O.P., redaktor; FIDCHENKO, O.N., redaktor; ANGELINA, P.M., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATS'KA, G.E., redaktor; VASILENKO, A.O., redaktor; VLASYUK, P.A., redaktor; GORODNIY, M.G., redaktor; DEMIDENKO, T.T., redaktor; DUBKOVETS'KIY, F.I., redaktor; KIRICHENKO, F.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNIY, M.O., redaktor; PERSHIN, P.M., redaktor; POPOV, F.A., redaktor; POSMITNIY, M.O., redaktor; PSHENICHNIY, P.D., redaktor; RADCHENKO, B.P., redaktor; POMANENKO, S.S., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVS'KIY, O.N., redaktor; TSIBENKO, K.O., redaktor; SHCHERBINA, O.P., redaktor; KRAVCHENKO, M.F., tekhnichnyy redaktor

[Collective farm encyclopedia] Kolhospna vyrobnycha ensyklopediia. Vyd. 2-e, perer. i dop. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi lit-ry URSR. Vol.1. Abrykos - Liutserna. 1956. 756 p. (MIRA 9:9)
(Agriculture--Encyclopedias and dictionaries)

BOYKO, D.V.

SPIVAK, M.S., glavnyy redaktor; BELOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVAL', A.G., redaktor; KRYLOV, A.F., redaktor; PUKHAL'SKIY, A.V., redaktor; SIDORENKO, A.P., redaktor; FEDCHENKO, A.M., redaktor; ANGELINA, P.N., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATSKAYA, G.Ye., redaktor; VASILENKO, A.A., redaktor; VLASYUK, P.A., redaktor; GORODNIY, N.G., redaktor; DEMIDENKO, T.T., redaktor; DUBKOVETSKIY, F.I., redaktor; KIRICHENKO, P.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNYY, M.Ye., redaktor; PERSHIN, P.N., redaktor; POPOV, F.A., redaktor; POSMITNYY, M.A., redaktor; PSHEVNICHNYY, P.D., redaktor; RADCHENKO, B.P., redaktor; ROMANENKO, I.N., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVSKIY, A.N., redaktor; TSYBENKO, K.Ye., redaktor; KOVAL'SKIY, V.F., tekhnicheskii redaktor

[Practical collective farm encyclopedia] Kolkhoznaya proizvodstvennaya entsiklopediya. Izd. 2-oe, ispr. i dop. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR. Vol. 1. Abrikos - liutserna. 1956. 688 p. (MLRA 10:9)
(Agriculture--Dictionaries)

Boyko, P. V.

SPIVAK, M.S., glavnyy red.; BELOZUB, V.G., red.; VASILENKO, P.M., red.;
 ZORIN, I.G., red.; IL'CHENKO, I.K., red.; KOVAL', A.G., red.;
 KRYLOV, A.F., red.; PUKHAL'SKIY, A.V., red.; SIDORENKO, A.P.,
 red.; FEDCHENKO, A.N., red.; ANGELINA, P.N., red.; BUZANOV, I.F.,
 red.; BOYKO, D.V., red.; BURKATSKAYA, G.Ye., red.; VASILENKO, A.A.,
 red.; VLASYUK, P.A., red.; GORODNIY, N.G., red.; DEMIDENKO, T.T.,
 red.; DUBKOVETSKIY, P.I., red.; KIRICHENKO, F.G., red.; LITOVCHENKO,
 G.P., red.; OZERNYY, M.Ye., red.; PERSHIN, P.N., red.; POPOV, F.A.,
 red.; POSMITNYY, M.A., red.; PSHENICHNYY, P.D., red.; RADCHENKO,
 B.P., red.; ROMANENKO, I.N., red.; RUBIN, S.S., red.; SAVCHENKO,
 M.Kh., red.; SOKOLOVSKIY, A.N., red.; TSYBENKO, K.Ye., red.;
 KOVAL'SKIY, V.F., tekhn.red.

[Practical collective farm encyclopedia] Kolkhoznaya proizvodstven-
 naya entsiklopediya. Izd. 2-oe, perer. i dop. Kiev, Gos. izd-vo
 sel'khoz. lit-ry USSR. Vol.2. Malina-Iashchur. 1957. 923 p.
 (Agriculture--Dictionaries) (MIRA 11:4)

GURFINKEL', I.Ye.[deceased]; BOYKO, D.Ya.; IVANKOV, I.D.;
ALEKSEYEV, N.S.; KUTYANIN, G.I., prof., doktor tekhn.
nauk, spets. red.; NIKOLAYEVA, N.G., red.

[Technical guide to glass, ceramics, furniture, and building materials] Tovarovedenie silikatnykh, mebel'nykh i stroitel'nykh tovarov. Moskva, Ekonomika, 1964. 376 p.
(MIRA 17:9)

BOYKO, E. K.

BOYKO, E. K.--"Pathologicoanatomical Changes in the Liver and Bile-passages in the Presence of Opisthorchiasis in Man." State Order of Lenin Inst. for the Advanced Training of Physicians imeni S. M. Kirov Leningrad, 1955 (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No. 35, 1955

BOYKO, E.K.

GIRGOLAV, S.S., professor; BLINOV, M.I., professor; BALAKINA, V.S., professor; KIBEL'NITSKIY, O.K., kandidat meditsinskikh nauk; BRIGHEVNIK, Ye.V., kandidat meditsinskikh nauk; BOYKO, E.K., kandidat meditsinskikh nauk; BYSTROVA, V.V., kandidat meditsinskikh nauk; VIASOVA, Z.A., kandidat meditsinskikh nauk; ANTIPINA, A.M., nauchnyy sotrudnik

Petr Vasil'evich Sipovskii. Arkh.pat. 18 no.8:131-132 '56. (MLRA 10:2)

1. Deystvitel'nyy chlen ANU SSSR (for Girgolav). 2. Direktor Instituta usovershenstvovaniya vrachey imeni S.M.Kirova (for Blinov). 3. Direktor Nauchno-issledovatel'skogo instituta travmatologii i ortopedii (for Balakina)
(SIPOVSKII, PETR VASIL'EVICH)

USSR / Human and Animal Morphology (Normal and
Pathological). Digestive System.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16897

Author : Boyko, E. K.

Inst : Omsk Medical Institute

Title : Pathologicoanatomical Characteristics of
Opisthorchotic Hepatitis and Cirrhosis of
the Liver in Man

Orig Pub : Tr. Omskogo med. in-ta, 1957, No 22, 35-39

Abstract : The basic pathomorphological changes in
opisthorchosis are expressed in subacute or
chronic productive-infiltrative angiocholitis
which leads to cirrhosis. Dystrophic changes
of liver parenchyma right up to necrosis of
whole complexes of liver cells are observed.
Regenerative processes are expressed in the

Card 1/2

15

USSR / Human and Animal Morphology (Normal and
Pathological). Digestive System.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16897

appearance of multinuclear epithelial cells and foci of nodular hyperplasia. In the interstitial tissue, manifestations of chronic inflammation with the appearance of lymphohistiocytic infiltrations were discovered, as well as leukocytes and eosinophils. Granulation tissue forms later and passes into scar tissue. The focal character of inflammatory and sclerotic changes in the liver, which develop in connection with involvement of bile ducts, is stressed. In 2 of 16 investigated cases, the affection of the liver in opisthorchosis was diffuse. --
V. I. Levenson

Card 2/2

USSR/General Problems of Pathology - Tumors.

U.

Abs Jour : Ref Zhur - Biol., No 2, 1959, 8728

Author : Boyko, E.K.

Inst : Omsk Medical Institute

Title : The Problem of Neoplastic Growth in Human Opisthorchosis.

Orig Pub : Tr. Omskogo med. in-ta, 1957, No 22, 40-44

Abstract : Among 84 persons who died from opisthorchosis a primary cancer of the liver (cholangiocytic adenocarcinoma) was found in 6 (7.1%). The liver was enlarged; its weight was 1970-2750 grams; on its surface tubercular excrescences were noted corresponding to tumor nodules. There were cavities in which opisthorchis eggs were found. In the liver tissue there was the picture of chronic hepatitis and cirrhosis. In the bile ducts there was an inflammatory proliferation with marked atypicality of the

Card 1/2

USSR/General Problems of Pathology - Tumors.

U.

Abs Jour : Ref Zhur - Biol., No 2, 1959, 8728

epithelium. In the ducts which were adjacent to the tumor nodules the atypical cells infiltrated the surrounding tissues and metastasized. In the histories of 5 patients there were reports of the eating of raw fish for 2-5 years. -- A.Ya. Sinay

Card 2/2

- 20 -

BOYKO, E.K., kand. med. nauk

Cancer of the stomach according to materials of autopsies performed in Leningrad. Trudy OMI no.54:61-70 '64.

(MIRA 18:9)

1. Iz kafedry patologicheskoy anatomii Leningradskogo gosudarstvennogo instituta usovershenstvovaniya vrachey imeni Kirova (zav. prof. P.V. Sipovskiy).

47320-66 EWT(1)/EWT(m)/T/EWP(t)/ETI LJP(c) JD/WW/JG	
ACC NR: AR6025753	SOURCE CODE: UR/0058/66/000/004/A074/A074
AUTHOR: <u>Borisova, L. A.; Boyko, E. N.; Dmitriyev, P. I.</u>	
TITLE: Crystallization of <u>gallium arsenide</u> from supercooled melts 52 B	
SOURCE: Ref. zh. Fizika, Abs. 4A624	
REF. SOURCE: <u>St. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 3</u>	
TOPIC TAGS: gallium arsenide, crystallization, single crystal growth, supercooling	
ABSTRACT: A study was made of the influence of different factors on the processes of <u>crystallization of GaAs</u> from stoichiometric melts: the degree of superheat of the melt, rate of cooling, the degree of supercooling, and the time of "isothermal soaking" in the supercooled state. The interrelationship between these parameters and the number of crystallization centers during the solidification of the melt is considered. The data obtained makes it possible to choose optimal conditions for the production of <u>GaAs single crystals</u> from melts, using "isothermal soaking" of the melts in the supercooled state. [Translation of abstract].	
SUB CODE: 20	
Card 1/1 afs	

BOYKO E.P.

STARTSEV, I.A.; BOYKO, E.P.

[Organizing the feeding of children in Pioneer camps and summer health institutions] Organizatsiia pitaniia detei v pionerskikh lageriakh i letnikh detskikh ozdorovitel'nykh uchrezhdeniakh. Kiev, Gos. med. izd-vo USSR, 1954. 80 p. (MIRA 11:4)
(CHILDREN--NUTRITION)

BOYKO, E.P.

BOYKO, E.P., kand.med.nauk (Stalino)

Demographic shifts and factors indicating the state of health of
the Donets Basin population. Vrach.delo no.11:1183-1185 N '57.
(DONETS BASIN--PUBLIC HEALTH) (MIRA 11:2)

BOYKO, B.P., kand.med.nauk (Kiyev)

Control of alcoholism is an urgent task. Vrach.delo no.7:735-738
Jl '59. (MIRA 12:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gi-
giyeny.

(ALCOHOLISM)

BOYKO, E.P., kand.med.nauk (Kiyev)

Achievements of the public health service in the western provinces
of the Ukraine during twenty years of Soviet rule. Vrach.delo no.9:
963-967 S '59. (MIRA 13:2)

(UKRAINE, WESTERN--PUBLIC HEALTH)

BOYKO, E.P., kand.med.nauk

Czechoslovak people build socialism. Vrach.delo no.5:547-549 My '60.
(MIRA 13:11)

(CZECHOSLOVAKIA--PUBLIC HEALTH)

BOYKO, F.

Creative activity of A. Aniskin's brigade. Mashinostroitel'
no.6:2-3 Je '63. (MIRA 16:7)

(Lugansk—Diesel locomotives)

BOIKO, F. I.

Parovozy promyshlennogo transporta; konstruktsiia i remont. Sverdlovsk, Mashgiz, 1948.
221, (3)p. diagrs.

Bibliography: page at end.

Locomotives for industrial transport; design and repair.

DLC: TJ635.B6

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress,
1953.

BOIKO, F.I.

BOIKO, F.I. The rolling stock of industrial transport; construction and repair Moskva, Gos. nauch. -tekhn. izd-vo mashinostroit. lit-ry, 1949. 195 p. (50-22188)

TF375.B6

BOYKO, P.I.

[The Cherepanovs, outstanding Russian mechanics] Zamechatel'nye russkie mekhaniki Cherepanovy. Sverdlovsk, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry [Uralo-Sibirskoe otd-nie] 1952. 81 p. (MLBA 6:8)

(Cherepanov, Efim Alekseevich) (Cherepanov, Miron Efimovich)

(Industrial arts--History) (Railroads--History)

1. BOYKO, F. I.
2. USSR (600)
4. Technology
7. Steam engines for industrial transport. Izd. 2-e. Sverdlovsk, Mashgiz, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

BOYKO, Fedor Ivanovich; SOLOGUBOV, V.M., doktor tekhnicheskoy nauk,
~~soobshchik~~; PRIZHANSKIY, A.S., inzhener, redaktor; SOKOLOVA, T.P.,
tekhnicheskoy redaktor

[Locomotives for industrial transportation] Paryozy promyshlennogo
transporta. Isd. 3-e, perer. i dop. Moskva, Gos.nauchno-tekhn.isd-vo
mashinostroit. lit-ry. 1957. 262 p. (MLRA 10:7)
(Locomotives)

BOYKO, F.I.

SUBJECT: USSR/Mining Transport Means

127-10-18/24

AUTHOR: Boyko, F.I., Mechanical Engineer

TITLE: Some Problems of Dump Car Construction (Nekotoryye voprosy dumpkarostroyeniya)

PERIODICAL: Gornyy Zhurnal, 1957, #10, pp 71-72 (USSR)

ABSTRACT: In order to transport large-lump ore and heavy rocks, dump cars with a 25-ton axle load must be constructed. Heavy dump cars with 6 and 8 axles have economical advantages.

In order to transport lighter freights, dump cars with enlarged volume capacity are expedient. The width of the existing dump cars can be increased; the height can also be increased by 200 to 300 mm.

Dump cars must be equipped with brakes of minimum dimensions. In particular, electropneumatic brakes should be tested.

The Kaliningrad RR Car Plant alone cannot handle the production of several dump car types. One additional plant for building dump cars is necessary. The expansion of the Kaliningrad Plant is not expedient.

Card 1/2

127-10-18/24

TITLE: Some Problems of Dump Car Construction (Nekotoryye voprosy
dumpkarostroyeniya)

No references are cited.

ASSOCIATION: Not indicated

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2

~~BOYKO, Fedor Ivanovich; KAZANSKIY, G.A., kand.tekhn.nauk, retsenzent;~~
POTIYEV, V.M., red.; SOKOLOVA, T.F., tekhn.red.

[Rolling stock of the industrial transportation system]
Pervishnoi sostav promyshlennogo transporta. Izd. 2., dop. 1
ispr. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry.
1958. 205 p. (MIRA 12:1)
(Railroads--Rolling stock)

BOYKO, F.I., inzh. (g.Sverdlovsk)

Operational practice with the 222 engineer's brake valve. Elek.1
tepl.tiaga 3 no.6:23-24 Je '59. (MIRA 12:9)
(Locomotives--Equipment and supplies)

BOYKO, F.I., starshiy nauchnyy storudnik; SENDEROV, G.K., starshiy
nauchnyy sotrudnik

Are emergency brake accelerators necessary on freight trains?
Elek. i tepl. tiaga 4 no. 9:45 8 '60. (MIRA 13:12)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta shelezнодорожного транспорта.
(Railroads--Brakes)

BOYKO, F.I., starshiy nauchnyy sotrudnik

Station for testing automatic brakes. Elek. i tepl. tiaga no.1:32
Ja '61. (MIRA 14:3)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.
(Railroads—Brakes—Testing)

BOYKO, F.I., starshiy nauchnyy sotrudnik

How a locomotive engineer can detect the blockage of the end
brake main valves. Elek.i tepl.tiaga 6 no.4:33-34 Ap '62.

(MIRA 15:5)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta zheleznodorozhnogo transporta Ministerstva putey
soobshcheniya.

(Electric locomotives—Brakes)

BALZHI, M.F.; BEREZKIN, P.N.; GOL'DSHTEYN, Ya.Ye.; GAL'PERIN, Ye.B.;
YEDLICHKO, V.V.; KERAS, A.F.; LEKUS, I.D.; POTEKUSHIN, N.V.;
POZDNYSHCHEV, V.M.; SUBBOTIN, N.A.; SAVINTSEV, R.I.; TAMAROVSKIY,
V.M.; SHEREMET'YEV, A.D.; BAKSHI, O.A., kand. tekhn. nauk,
retsenzent; BONDIN, Ye.A., inzh., retsenzent; BOYKO, E.I., inzh.,
retsenzent; VASIN, Yu.P., inzh., retsenzent; LAZAREV, A.A., inzh.,
retsenzent; SOROKIN, A.I., inzh., retsenzent; KON'KOV, Arkadiy
Sergeyevich, dots., red.; DUGINA, N.A., tekhn. red.

[Economy of metals in the machinery industry] Ekonomiya metallov
v mashinostroyeni. [By] M.F. Balzhi i dr. Moskva, Mashgiz, 1962.
235 p. (MIRA 16:2)

(Machinery—Design and construction)
(Metals, Substitutes for)

BOYKO, Fodor Ivanovich; DANILOV, Valentin Ivanovich; SHAKURSKIY, K.D.,
inzh., retsenzent; SARANTSEV, Yu.S., inzh., red.; VOROTNIKOVA,
L.F., tekhn. red.

[Repair of provisbry No.270-002 air distributors] Remont voz-
dukhoraspredelitelei USL. No.270-002; opyt kontrol'nego pun-
kta avtotormozov stantsii Sverdlovsk-Sortirovochnyi. Moskva,
Transzheldorizdat, 1963. 41 p. (MIRA 16:4)
(Air brakes--Maintenance and repair)

BOYKO, F.I., inzh.

Effect of the boosters of emergency braking on the performance of
the brakes in a train. Vest.TSNII MPS 22 no.6:40-43 '63.
(MIRA 16:10)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta zheleznodorozhnogo transporta Ministerstva putey
soobshcheniya, g. Sverdlovsk.

BOYKO, F.I., inzh. starshiy nauchnyy sotrudnik (Sverdlovsk)

Needed improvement in the organization of the repair of automatic brakes. Zhel. dor. transp. 46 no.8:48-49 Ag '64.

(MIRA 17:11)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.

BOYKO, F.I.

Conference on the protection of underground structures
from electrolytic corrosion. Avtom., telem. i svyaz' 9
no.10:35 0 '65. (MIRA 18:11)

1. Neshtatnyy korrespondent zhurnala "Avtomatika, telemekhanika i svyaz'".

BOYKO, F.I., insh.

Testing the reliability of braking systems for holding freight
cars after stop on an incline. Trudy TSNII MPS no.289:118-126 '65.
(MIRA 18:12)

BOYKO, F.K., inzh.

Method of more accurate determination of assumed loads in low-voltage networks. Mekh. i elk. sots. sel'khoz. 15 no.2:36-38 '58.
(Electric networks) (MIRA 11:5)

BOYKO, F.K., inzh.

Determining the electric power demand of agricultural consumers.
Nauch. trudy VILSKH 6:150-167 '59. (MIRA 13:12)
(Electricity in agriculture)

GNEDENKO, B.V., akademik; KRASNOV, I.G.; BOYKO, F.K. (g.Pavlodar);
MESHEL', B.S., inzh.

Draft of directives regarding the calculation of electric power
loads in industrial enterprises. Prom.energ. 15 no.6:41-45
Je '60. (MIRA 13:7)

1. AN USSR (for Gnedenko). 2. Proyeektnyy institut Minstroya
RSFSR (for Krasnov).
(Electric engineering)

BOYKO, F.K.

Concerning G.V. Serbinovskii's article "Certain problems concerning the development of industrial electric power distribution systems." Prom. energ. 15 no.8:45-47 Ag '60.
(MIRA 15:1)

(Electric power distribution)

~~*(Serbinovskii, G.V.)*~~

BOYKO, F.N.

Advanced workers of the seven-year plan. Mashinostroitel'
no.11:30-31 '65. (MIRA 18:11)

BOYKO, G. (g. Margelan, Uzbekskoy SSR).

Mechanization of an artel. Prom.koop. 14 no.1:34 Ja '60.
(MIRA 13:5)
(Margelan--Silk manufacture)

S/125/60/000/008/008/012
A161/A029

AUTHORS: Bernadskiy, V.N.; Boyko, G.A.

TITLE: The Effect of External Cooling on the Quality¹⁴ of Joints²⁶ in Roller Welding

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 8, pp. 73 - 80

TEXT: A new external cooling method for the resistance seam welding process is described, consisting in water cooling for the contact rollers and compressed air blast over the welding area. Steel structure in the joints (photos, Fig. 5) has a lower content of hard components than structure produced with conventional external cooling, and the hardness of these components is lower, though the structure is naturally less uniformly fine-grained than after normalization. The new cooling decreases the cooling rate of a joint and causes a kind of heat treatment from inside by heat remaining in the metal after welding and separating additionally through the effect of the passing shunting current. The essence of the system is illustrated in a diagram (Fig. 2,6). One cooling device has been produced and installed in the welding stand of a flat folding tube mill (Fig. 7, photo). These tubes are produced from low-carbon rimming "08K_n" (08kp) steel and

Card 1/2

S/125/60/000/008/008/012
A161/A029

The Effect of External Cooling on the Quality of Joints in Roller Welding

welded continually in up to 300 m lengths on this special mill. Later, on the assembly site, the flat tubes are expanded by compressed air into round shape. Abundant water cooling was used in the process and caused the formation of hard metal structure in the joints and deformation of the rollers. The new cooling system raises 1.3 to 1.6 times the mechanical strength of the joints. Engineer A.A. Trushchenko and the members of DTZ im. Lenina (DTZ im. Lenin) A.V. Toldayev, T.S. Shchegol, I.V. Alekseyeva and B.N. Parshin participated in the development of the system. There are 9 figures, 3 tables and 5 Soviet references. ✓

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (Electric Welding Institute "Order of the Red Banner of Labor" im. Ye.O. Paton of the Academy of Sciences of the Ukrainianskaya SSR)

SUBMITTED: May 22, 1960

Card 2/2

BOYKO, G.A.; BERNADSKIY, V.N.

Die-stamped and welded sheet-steel heat exchangers. Avtom. svar.
15 no.12:85-86 D '62. (MIRA 16:2)

(Sheet-metal work)
(Sheet steel—Welding)

BOYKO, G.A., inzh.; BERNADSKIY, V.N., kand.tekhn.nauk; FITKEVICH, M.F.; inzh.

Plate heat exchangers in the domestic "Ukraina-70" refrigerator. Khol.
tekh. 40 no.3:25-27 My-Je '63. (MIRA 16:9)

1. Institut elektrosvariki im. Ye.O.Patona AN UkrSSR (for Boyko). 2.
Vasil'kovskiy zavod kholodil'nikov (for Fitkevich).
(Refrigerators)

L 32013-65 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(b) PC-4 ASDN3 JD/HK/CS
ACCESSION NR: AP4049134 S/0020764/15920017007270073

AUTHOR: Paton, B. Ye. (Academician); Medovar, B. I.; Kirde, I. V.;
Luzitskiy, I. G.; Boyko, G. A.; Lutsyuk-Khudin, G. V.

TITLE: Spontaneous cleaning of oxide films from metal surfaces 27

SOURCE: AN SSSR. Doklady*, v. 159, no. 1, 1964, 72-73 18

TOPIC TAGS: carbon steel, chromium nickel steel, air oxidation,
oxide film, spontaneous film disappearance, steel self cleaning 18

ABSTRACT: Oxide films were observed to disappear spontaneously from the surfaces of many steels and alloys to which they had adhered for many years. Oxide films on the surface of a carbon-steel container were removed when the container was heated to 1300C for several minutes. A similar self-cleaning tendency was observed on carbon- or Cr-Ni-steel foil placed in such a container. The air pressure inside the container at first rises during the heating process and then drops abruptly to atmospheric pressure.

Card 1/2

L 32013-65

ACCESSION NR: AP4049134

where it remains almost unchanged. It is difficult, as yet, to give an exact theoretical explanation for the phenomenon. It is assumed that at a high temperature the process of oxidation and nitridation in a solid metal is determined by the rate of diffusion of oxygen and nitrogen through the layer of oxides and nitrides on the metal's surface. The authors recommend a further study of this phenomenon. At present, it is used in various fusionless welding methods for surface hardening, in the production of bimetallic parts by hot chescaling, etc. Orig. art. has: 3 figures.

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UkrSSR
(Electric Welding Institute, AN UkrSSR)

SUBMITTED: 23Jul64

ENCL: 00

SUB CODE: NM, TD

NO REF SOV: 001

OTHER: 000

ATD PRESS: 3145

Card 2/2

BOYKO, Georgiy Aleksandrovich

[Enthusiasts of the Volzhskiy Chemical Plant]
Entuziasty Volzhskogo khimicheskogo. Volgograd,
Nizhne-Volzhskoe knizhn. izd-vo, 1965. 63 p.
(MIRA 19:1)

L 63451-65 EPA(s)-2/EWP(k)/EWA(c)/EWT(m)/EWP(b)/T/EWP(v)/EWP(t) JD/HM/HW

ACCESSION NR: AP5018701

UR/0125/65/000/007/0073/0074
621.791.77.004.1

AUTHOR: Puzrin, L. G. (Engineer); Boyko, G. A. (Engineer); Lokshin, V. Ye. (Engineer) 30
31
5

TITLE: New method of temperature control during heating in vacuum

SOURCE: Avtomaticheskaya svarka, no. 7, 1965, 73-74

TOPIC TAGS: vacuum heat treatment, temperature control, new temperature control method

ABSTRACT: Author Certificate No. 164090¹⁰ has been issued for a new method of temperature control for metal parts heated in vacuum developed at the Electric Welding Institute im. Ye. O. Paton. The temperature of the part being heated is indicated by the value of the thermionic emission current in the circuit formed by the part being heated (the cathode) and another metal plate at a positive potential relative to the cathode (the anode) located near the cathode in the vacuum chamber. With an unchanging heated area, anode potential, interelectrode gap, and vacuum, the emission current unambiguously depends on the temperature of the metal part being heated. The ~~emission current is easily registered and is much stronger than the current obtained~~

Cord 1/2

L 63451-65

ACCESSION NR: AP5018701

2

from a thermocouple or an optical temperature sensor. For example, in vacuum diffusion bonding of stainless steel parts, the current reached 2—3 mamp at the source voltage of 100 v. Under the experimental conditions, the temperature measurement accuracy was $\pm 2-16^{\circ}\text{C}$. The new method of temperature control is contactless, which makes it possible to recommend it for various technological operations requiring heating and manipulation of parts in vacuum in mass production. Orig. art. has: 1 figure. [NS]

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE,MM

NO REF SOV: 001

OTHER: 000

ATD PRESS: 4067

ms
Card 2/2

14543-66 EWT(m)/EPF(n)-2/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) JD/WW/HM/TH/JG

ACC NR: AP6006309 SOURCE CODE: UR/0413/66/000/002/0013/0013

INVENTOR: Paton, B. Ye.; Medovar, B. I.; Puzrin, L. G.; Boyko, G. A.; Lutsyuk-Khudin, V. A.; Bondarchuk, O. P.; Timofeyev, D. I.; Dryapik, Ye. P.

ORG: none

TITLE: Method of producing metal laminates. Class 7, No. 177824 [announced by the Electric Welding Institute im. Ye. O. Paton (Institut elektrosvarki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 13

TOPIC TAGS: metal, clad metal, metal laminate, metal rolling

ABSTRACT: This Author Certificate introduces a method of producing metal laminates by pack rolling with a low-melting vanishing insert placed between the metals to be bonded. To obtain a strong bond between dissimilar metals, the rolling is done with the insert in the liquid state. [ND]

SUB CODE: 11/ SUBM DATE: 29May64/ ATD PRESS: 4197

Cladding / 8

CC

Card 1/1

BOYKO, G. F.

BOYKO, G. F.: - "The importance of electrocardiography in evaluating acute disorders of venous blood circulation". Odessa, 1955. Odessa State Medical Inst imeni N. I. Pirogov. (Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis', No. 40, 1 Oct 55

Boyko, G.F.
YASINOVSKIY, M.A., professor, zasluzhennyy deyatel' nauki; BOYKO, G.F.,
kandidat meditsinskikh nauk; AYZENBERG, A.A., redaktor; GITSHEN, A.D.,
tekhnicheskii redaktor

[Cardiac lesions in rheumatic fever; according to electrocardio-
graphic data] Izmeneniia serdtsa pri revmatizme; po elektrokardio-
graficheskim dannym. Kiev, Gos. med. izd-vo USSR, 1956.
91 p.

(RHEUMATIC HEART DISEASE)

(MLRA 10:4)

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Synchronous recording of electrocardiograms, phonocardiograms and ballistocardiograms on the three-channel electron-beam oscillograph "Vector-Visocard" by a parallel recording of heart sounds on ferro-magnetic tape. Vrach.delo no.5:533 My '59.

1. Fakul'tetskaya terapevticheskaya klinika (zav. - zasluzhennyy deyatel' nauki, prof. M.A. Yasinovskiy) Odesskogo meditsinskogo instituta.

(HEART--SOUNDS)

(OSCILLOGRAPHY)

YASINOVSKIY, M.A., prof., zasluzhennyy deyatel' nauki; BOYKO, G.F., dotsent

Myocardial infarct in rheumatic fever. *Kardiologiya* 5 no.2:
10-15 '63 (MIRA 17:2)

1. Iz fakul'tetskoy i gospi'tal'noy terapevticheskikh klinik
Odesskogo meditsinskogo instituta imeni Pirogova. 2. Chlen
korrespondent AMN SSSR (for Yasinovskiy).

BOYKO, G.F., dotsent ; ALEYNIKOVA, L.I., kand. med. nauk; LEMBERK, Ye.B.

Treatment of coronary atherosclerosis with small doses of
heparin. Ter. arkh. 35 no.4:20-25 Ap'63 (MIRA 17:1)

1. Iz kafedry gosptal'noy terapii lechebnogo fakul'teta (zav. -
dotsent G.F. Boyko) Odesskogo meditsinskogo instituta imeni
N.I.Pirogova.

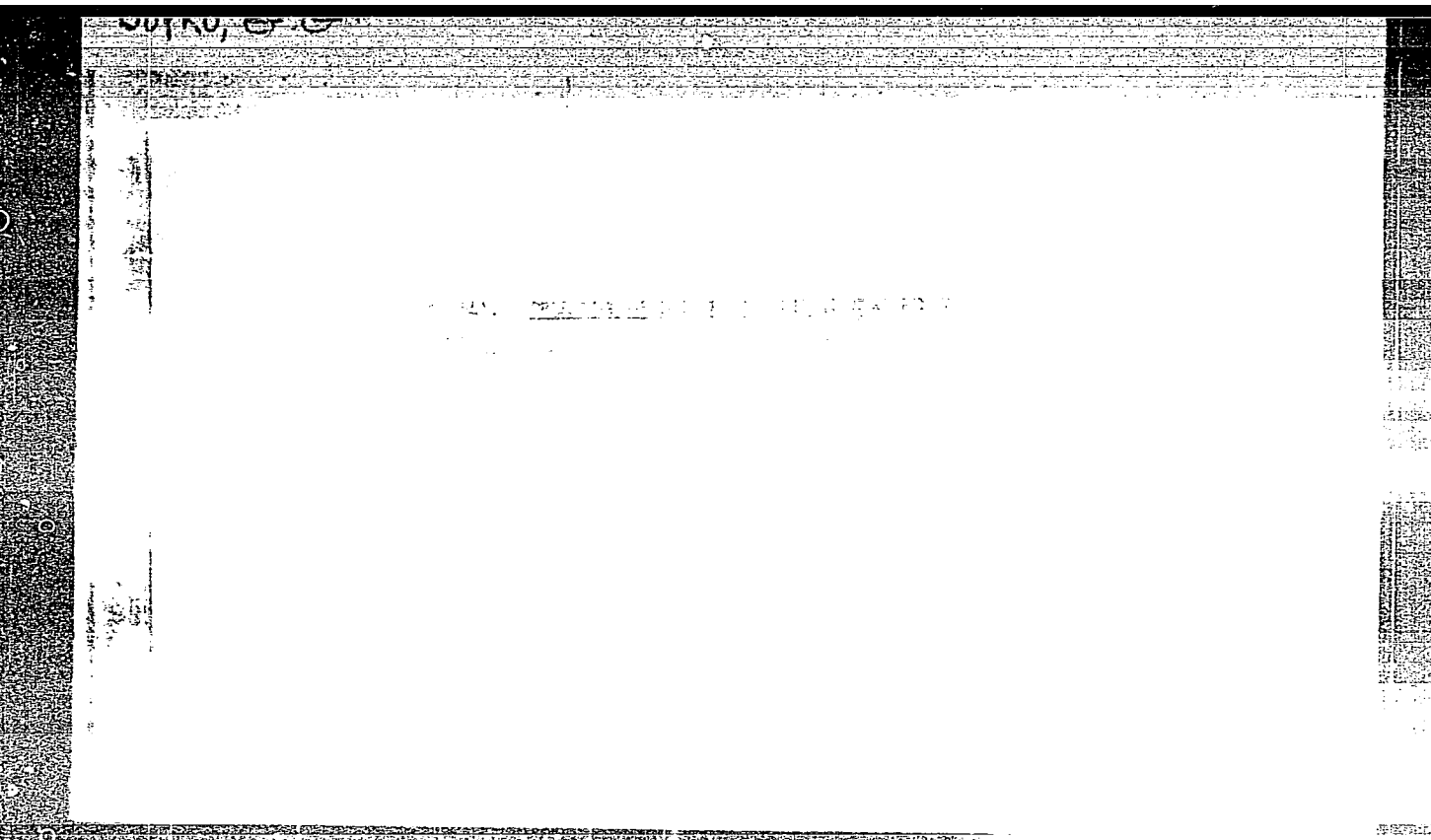
YASINOVSKIY, M.A.; BOYKO, G.F.

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1. Gospital'naya i fakul'tetskaya terapevticheskiye kliniki Odesskogo meditsinskogo instituta imeni Pirogova.

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NEVEL'SON, M.I.; NIKITIN, A.I.; YANISHEVSKIY, V.V.; BOYKO, G.G.; KUZNETSOV,
N.I.; BULANOVA, I.A.; GORSHKOV, V.I.; KATSMAN, I.A.; KUKAYEVA, YE.V.;
RYZHOVA, V.V.; TUROBOVA, V.I.; CHEREDEYEVA, Ye.M.; KOSHELKIN, M.V.

Development of highly efficient ventilator models ORGRES operating
according to a 0.68-161° system for electric power plants. Prem.
energ. 18 no.7:8-9 JI '63. (MIRA 16:9)

(Electric power plants--Electric equipment)
(Fans, Electric)

BOYKO, G. P.

19998 BOYKO, G. P. Uluchshit' rabotu gosydarstvennogo sortoispytaniya na osnove ucheniya Michurina -- Lysenko. Sel. khoz-vo Tadzhikistana, 1949, No. 3, s. 34-36.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

M

Country : USSR
 Category : CULTIVATED PLANTS. POTATOES, Vegetables. Cucurbits.
 Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-96011
 Author : Boyko, G.P.
 Institut. :
 Title : A High Yielding Cucumber Variety
 Orig. Pub. : Sad i ogorod, 1957, No. 7., 73
 Abstract : A mid-season maturing local cucumber variety, Margelanskiy 822, improved at the Uzbek Vegetable-Potato Station has distinguished itself in particular at the Stalinabad Vegetable Variety Plot. The fruits are 185-230 g, cylindrical, 15-18 cm long, smooth, glossy, dark green, with long white stripes, and do not turn yellow for a long time. The gustatory and salt qualities are good. It yielded 640 cwt/ha. in 1956. It is distributed in the Tadzhik and Uzbek SSR. In preliminary trials
 Card: 1/2

Country :
Category : CULTIVATED PLANTS. POTATOES,
Abs. Jour. : REF ZHUR-BIOL.,21,1958,NO-96011

Author :
Institut. :
Title :

Orig. Pub. :

Abstract : the Vyaznikovskiy 37 and Astrakhanskiy 136 varieties were also notable.--M.V. Dzanishnikov

Card: 2/2

COUNTRY : USSR
 CATEGORY : Cultivated Plants. M
 Potatoes: Vegetables. Cucurbits.
 ABS. JOUR. : RZhBiol., No. 3, 1959, No. 10960
 AUTHOR : Boyko, G. P.
 INST. : -
 TITLE : A Method of Growing Vegetable Crops Without Transplant-
 ing.
 ORIG. PUB. : Sad i ogorod, 1958, No. 3, 13-15.
 ABSTRACT : On Stalinsbad variety trial plot, with the direct method
 of growing tomatoes, peppers and eggplant by sowing the
 seeds into the ground simultaneously with the trans-
 planting of the seedlings, marketable ripeness came only
 5-7 days later than that of the transplanted crop over
 a period of 3 years (1955-1957). When sowing the seeds
 into the ground 8-10 days earlier than the date of trans-
 planting the seedlings, the ripening took place simulta-
 neously. With the direct method of the cultivation, the
 plants had deep roots, tolerated the drought better, re-
 CARD: 1/2

COUNTRY :
CATEGORY :
ABS. JOUR. : RZhBiol., No. 1959, No. 10960
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : quired fewer water applications, were less affected by the diseases and had larger fruits. The feeding area for tomatoes grown with the direct method of cultivation was 120-140 x 50-70 cm, for eggplant - 80 x 40 cm, for peppers - 60 x 30 cm and for cabbage of mid-season maturity - 60 x 60 cm. The sowing rate for all crops was 2-2.5 kilograms/ha. -- V. D. Latkin-Turkov
CARD: 2/2

BOYKO, G.P. [Boiko, H.P.]

Effect of microelements on the growth and development of the
seedlings of *Lilium regale* Wils. Visnyk Kyiv.un. no.5. Ser.
biol. no.2:21-24, '62. (MIRA 16:5)
(PLANTS, EFFECT OF TRACE ELEMENTS ON) (LILIES)